

A/B, 7, 5/20

May 27, 1952

A

2430 E Street

Washington D.C.

Dear [REDACTED]

Herewith is the report which
you requested last wk. bringing you
up to date on our activities.

With very best regards

Sincerely

C [REDACTED]

Attach

- 1 Report-3 pgs.
 - 2 Return Receipts
- [REDACTED]

To [REDACTED]
From [REDACTED]

May 21, 1952
Copy to [REDACTED] A

C
Subject

Further attempts to analyze an unknown substance
contained in a syringe assembly submitted by the
Central Intelligence Agency.

Our first report (Sept 1951) on this Subject indicated inability to identify the unknown substance by normal techniques because of lack of sample in the collapsible tube proper.

A
Before returning the apparatus to [REDACTED], it was carefully freed of all residues. The collapsible tube, the hypodermic needle fragment and the inner surfaces of the plastic container yielded scrapings which when pooled weighed about 25 micrograms.

Efforts to locate workers who were skilled in measuring physical constants of minute traces of materials resulted in our contact with [REDACTED] of [REDACTED] in January, 1952.

C

[REDACTED]

[REDACTED] stated in an interview at his laboratory in [REDACTED] that he would be able to obtain infra red and ultra violet absorption spectra from single crystals of an unknown substance with dimensions of crystals no larger than 0.5mm length and 0.05mm width.

Upon returning to [REDACTED] after this interview we enlisted the cooperation of [REDACTED] and [REDACTED] of [REDACTED] in an attempt to crystallize the pooled residues or scrapings.

Early in May 1952 [REDACTED] notified us of their success in obtaining several crystals whose length were 0.8mm and width about 0.15mm.

after notifying [REDACTED] we [REDACTED] arranged to see [REDACTED] again on May 15, 1952 [REDACTED] examined three crystals

-with an experimental micro-infrared spectrophotometer, obtained preliminary absorption spectra which lead him to state that the crystals were without doubt organic chemical in nature. He asked for further authorization to proceed with the several days work necessary to measure the infra-red and ultra violet characteristics of the crystals.

A
We communicated this to you and to [REDACTED] and on May 20, 1952 were informed that [REDACTED] was authorized to proceed and to report to us.

In the meantime attempts are being made in [REDACTED] to measure the refractive indices of the crystals, to make a single crystal X-Ray pattern, from which the molecular weight of the unknown substance may be determined. C
This is to be done by [REDACTED] at [REDACTED] within the next 3 weeks.